

13000 GeV pp

 $t\bar{t}$ Particle-level $t\bar{t}$ invariant mass, $|y^{t,1}| \in [1,2]$

Rivet 4.1.0, 100k events

mcplots.cern.ch [arXiv:2401.10621]

2

1

0.5

 $d^2\sigma / d|y^{t,1}| dm^{t\bar{t}} \text{ # [fb] # [TeV]}^{-1}$ 10^3 10^2

10

1

ATLAS

Pythia 8.315 qcdcr0qq1

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

 $m^{t\bar{t}} \text{ # [TeV]}$

1

2

3

4